Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217/782-0610

CPC International
Summit-Argo Plant
NPDES Permit No. IL0041009
Final Permit

SEP 0 7 1984

CPC International
P.O. Box 345
Summit-Argo, Illinois 60501

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board prior to the effective date.

Should you have questions concerning the Permit, please contact Timothy R. Kluge at the telephone number indicated above.

Very truly yours,

Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:TRK:bjh/12190/16,23

Enclosure: Final Permit

cc: USEPA/With Enclosure
Region 2/With Enclosure
Permit Section
Records Unit
Consulting Engineer

NPDES Permit No. IL0041009

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

(NPDES) Permit

Expiration Date: July 31, 1989

Issue Date: September 7, 1984
Effective Date: October 7, 1984

Name and Address of Permittee:

CPC International
P.O. Box 345
Summit-Argo, Illinois 60501

Facility Name and Address:

CPC International
6400 Archer Rd.
Summit-Argo, Illinois 60501
(Cook County)

Discharge Number and Name:

001 Non-contact cooling water

Receiving Waters

Chicago Sanitary and Ship Canal

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:TRK:bjh/sp/1225D

NPDES Permit No. IL0041009

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
1. *From the effective date of this permit until the expiration date, the effluent of the following* discharge(s) shall be monitored and limited at all times as follows:						
	Outfall: 001 - Non-Contact Cooling Water					
Flow, MGD					1/week	Measure when monitorin
pH	Shall be in the range 6.0-9.0				1/week	Grab
Temperature	See Special Condition No. 2				1/week	Grab

NPDES Permit No. IL0041009

Special Conditions

1. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

2. The receiving waters are designated as Secondary Contact and Indigenous Aquatic Life Waters by Section 302.408, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended. These waters shall meet the following standard:

Temperatures shall not exceed 93oF (34oC) more than 5% of the time, or 100oF (37.8oC) at any time at the edge of the mixing zone which is defined by Rule 302.102 of the above regulations.

3. For the purpose of this permit, this discharge is limited to non-contact cooling, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.

4. The permittee shall record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The completed Discharge Monitoring Report form shall be submitted monthly to IEPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
2200 Churchill Road
Springfield, Illinois 62706

ATTACHMENT H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, Ch. 111 1/2 Ill. Rev. Stat., Sec. 1001-1051 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L. 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24 Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

(1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

(2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.

(3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency, upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records.**

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. This period may be extended by request of the Agency at any time.

(c) Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

(d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.

(a) **Application.** All permit applications shall be signed as follows:

(1) **For a corporation:** by a principal executive officer of at least the level of vice president;

(2) **For a partnership or sole proprietorship:** by a general partner or the proprietor, respectively; or

(3) **For a municipality, State, Federal, or other public agency:** by either a principal executive officer or ranking elected official.

(b) **Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a); and

(2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and

(3) The written authorization is submitted to the Agency.

(c) **Changes of Authorization** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(12) **Reporting requirements**

(a) **Planned Changes** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility.

(b) **Anticipated noncompliance** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) **Compliance schedules** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(d) **Monitoring reports** Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).

(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(e) **Twenty-four hour reporting** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours.

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to be reported within 24 hours.

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

(f) **Other noncompliance** The permittee shall report all instances of noncompliance not reported under paragraphs (12)(c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(e).

(g) **Other information** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) **Transfer of permits** A permit may be automatically transferred to a new permittee if:

(a) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees, and

(c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or

(4) The level established by the Agency in this permit.

(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(15) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:

(a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:

(1) User charges pursuant to Section 204(b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;

(2) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and

(3) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.

(17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(18) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(19) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than $2,500, nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.

(21) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(22) The Clean Water Act provides who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit shall, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(23) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(24) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(25) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board.

(26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

file
NPDES file

northeastern illinois planning commission

400 West Madison Street Chicago, Illinois 60606 (312) 454-0400

September 5, 1984

RECEIVED
SEP 10 1984
Environmental Protection Agency
Division of Water Pollution Control
Permit Section-Springfield
State of Illinois

Mr. Thomas G. McSwiggen, P.E.
Manager, Permits Section
Division of Water Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

Re: IEPA Notice No. bjh/sp/1225D - Proposed NPDES Permit For CPC (Corn Products Company) at 6400 Archer Road, Summit-Argo, Cook County (IL-0041009)

NIPC Water Quality Review Number 84-WQ-036

Dear Mr. McSwiggen:

At the September 5, 1984 meeting of its Areawide Water Quality Steering Committee, the Northeastern Illinois Planning Commission completed its consistency review/amendment consideration of the above referenced action.

Following notification of affected and interested parties, the Committee voiced its support for the proposed NPDES permit and concommitant plan amendment to reflect a 60 MGD discharge to the Chicago Sanitary and Ship Canal.

A detailed review statement is enclosed. If you have any questions regarding this Commission action, please do not hesitate to contact our offices.

Sincerely,

Deborah L. Washington

Deborah L. Washington
Project Review Officer

DLW:fg
Attachment

cc: Manager, Corn Products Company
Patrick O'Grady, Office Chief, DCCA, Springfield
James Pendowski, IEPA, Planning Section
Steve Dunn, IEPA, Grants Section

NORTHEASTERN ILLINOIS PLANNING COMMISSION

Areawide Water Quality Steering Committee
September 5, 1984

NIPC WQ Review Number: 84-WQ-036

NPDES Permit Number: IL-0041009

IEPA Facility Plan No.: Not Applicable

Type of Action: _X_ NPDES Permit Request ___ Facility Plan Review

_X_ Amendment Request ___ NPDES Permit Reissue

Applicant: Corn Products Company (CPC) International at 6400 Archer Road, Summit-Argo, Cook County

Request: IEPA Notice for a proposed National Pollutant Discharge Elimination System Permit (NPDES) for the discharge of 60 MGD of non-contact cooling water from outfall 001 to the Chicago Sanitary and Ship Canal.

RECOMMENDED AWQSC FINDINGS/ACTION:

_X_ Consistent/Support __ Inconsistent/Non-Support

__ Conditional Consistency/Support __ Deferral for More Data/Discussion

FACTORS SUPPORTING RECOMMENDED FINDING/ACTION:

1. Proposed action will not adverse affect water quality of the Chicago Sanitary and Ship Canal.
2. Plant expansion necessitating discharge permit is consistent with the Commission's endorsed employment forecasts for the area.
3. Requested discharge permit/plant expansion is consistent with the plans and objectives of the Illinois Enterprise Zone Act for the "Bedford Park/Summit Enterprise Zone.

Mary - PN File

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

MEMORANDUM

Comments? return this

DATE: JUN 2 9 1984

TO: Theodore Denning, Manager, DWPC/FOS, Region 2

FROM: Timothy R. Kluge, Manager, Industrial Unit TRK

SUBJECT: CPC International
Summit-Argo Plant
NPDES Permit No. IL0041009
Proposed Permit, Public Notice/Fact Sheet

RECEIVED
ILL. ENVIRONMENTAL PROTECTION AGENCY
JUL - 5 1984
DIV. WATER POLLUTION CONTROL
FIELD OPERATIONS SECTION - REG. 2

Please review the attached copy of the subject documents, and notify the Industrial Unit if you take exception to the limitations, sampling frequency, sample type or other requirements therein.

If no response is received within fifteen (15) days from the date of this memorandum, we will assume that you concur in the issuance of the Public Notice.

If you have any questions, please contact Timothy R. Kluge at 217/782-0610.

RECEIVED
1 1984
Protection Agency
of Water Pollution Control
Permit Section-Springfield
State of Illinois

Thank you for your cooperation.

TRK:bjh/1219D/16,23

Attachments

cc: NPDES Chron File

CC this pg anyway

TO

OK!

ENGINEER REVIEW NOTES

Date 6/21/84 Page 1 of 4 NPDES #IL0041009

A. Type of permit: X New ___ Reissued ___ Modified - PCB Order # ___

B. Discharge classification: ___ Major ___ High Priority X Minor

C. Name of Governing Body: CPC International

1. Facility Name: _____

2. Location of Discharge: Summit - Argo

D. Application Preparer: James Chapman, Dir. of Reg. Affairs

1. Firm: CPC Phone Number: 312/458-2000

E. IEPA Review Engineer: T Kluge Phone Number: 217/782-0610

F. Number of discharge(s) covered by this permit 1

G. Length of Permit: approximately 5 years, Expiration Date 7/31/89

If Less Than 5 Years, Is It Because

1. _____ Scheduling

2. _____ The Facility will be replaced or the discharge abated in less than five years.

3. _____ Other?

(specify) _____

H. Name of Receiving Stream:

Major Basin	Sub-Basin	Tributary	Minor Tributary
Chicago San. & Ship Canal			

1

ENGINEER REVIEW NOTES

Date 6/21/84 Page 2 of 4 NPDES #IL0041009

I. Stream Use Classification:

____ General Use Sec. Contact Other - Specify

J. 7-Day, 10 Year Low Flow of Receiving Stream: 1455 cfs

K. Dilution Ratio 15.7:1

L. Facility Intake Water

1.	Municipal or Private Water System	____	MGD
2.	Surface Water	60	MGD
3.	Groundwater	____	MGD
4.	Other (specify) _____	____	MGD

M. Facility Water Use

1.	Non-contact Cooling Water	60	MGD
2.	Boiler Feed Water	____	MGD
3.	Process Water (Include Contact Cooling Water)	____	MGD
4.	Sanitary Water	____	MGD
5.	Other (specify) _____	____	MGD
6.	Other (specify) _____	____	MGD

N. All Facility Discharges

1.	Surface Water	60	MGD
2.	Sanitary Sewer System - P/T	____	MGD
3.	Storm Sewer System	____	MGD
4.	Combined Sewer System - P/T	____	MGD
5.	Surface Impoundment With No Discharge from Fac.	____	MGD
6.	Underground Percolation	____	MGD
7.	Well Injection	____	MGD
8.	Evaporation	____	MGD
9.	Consumption	____	MGD
10.	Other (specify) _____	____	MGD

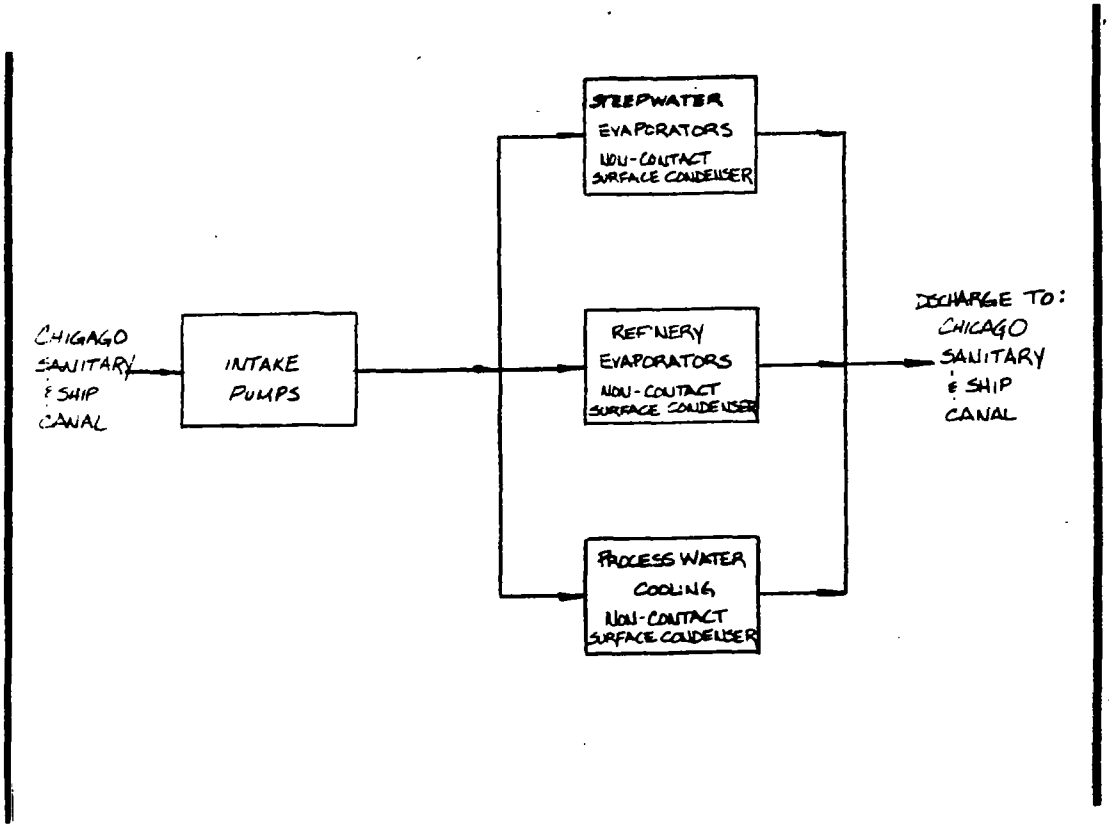
ENGINEER REVIEW NOTES

Date 6/21/84 Page 3 of 4 NPDES #IL 41009

O. Give a Brief Description of the Manufacturing Operations.

SIC: 2046 Category: Wet Corn Milling - Non-Contact Cooling water only - no process wastewater

P. Flow Diagram of Waste Sources and Treatment Process (Include design flow):



ENGINEER REVIEW NOTES

Date 6/21/84 Page 4 of 4 NPDES #IL 41009

Q. Discharge Number 001 Discharge Name Non-contact cooling water
R. Are there Federal Guidelines? X No ____ Yes 40 C.F.R. ____
S. Are there any toxics present? X No ____ Yes (see evaluation)
T. Flow: Average 30 / 60 / — Maximum 46 / ____ / — State Construction Permit
NPDES Application
DMR's Last 12 Months (see summary)

U. Parameter limitations, rational and evaluation:
1. State Limits

Parameter	conc. mg/l ave.	conc. mg/l max.	load limit lbs/day (mgd x conc. x 8.34) (ave.)	load limit lbs/day (mgd x conc. x 8.34) (max.)	basis
Flow				1/wk	
pH	6-9			1/wk	304.125
Temp.	WQ limits of 302.408			1/wk	304.105

Note: Calculations concerning Temp. WQ effects are in review notes for 1984-ED-0517

2. Federal Limits Subcategory ____
Basis ____ Production Rate ____
Standard x production rate = limit, eq. conc. base on ____ flow

N/A

3. Monitoring - see attached

1/wk Grab - consistent w/ other similar discharges

MAS:ds:6611C,sp

K4

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

PERMIT NO.: 1984-ED-0517 DATE ISSUED: May 18, 1984

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS PREPARED BY: Daniel Engineering

LOG NUMBERS: 0517-84

SUBJECT: CPC INTERNATIONAL (Summit - Argo, Cook County) - Non-Contact Cooling Water Outfall

PERMITTEE TO CONSTRUCT
CPC International
6400 Archer Road
Summit-Argo, Illinois 60501

Permit is hereby granted to the above designated permittee to construct water pollution control facilities described as follows:

Construction of approximately 2700 ft. of 42-inch pipe and an outfall structure, and upgrading of an existing pumping station to 32,000 gpm maximum capacity, to convey non-contact cooling water from a wet corn milling plant to the Chicago Sanitary and Ship Canal. Design Average Flow 30 mgd, Design Maximum Flow 46 mgd.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: This permit is for construction only and does not allow a discharge to waters of the State from the above-described facilities prior to issuance of an NPDES Permit for the discharge.

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:TRK:bjh/0966D/42
cc: EPA - Region 2
Daniel Engineering
Permit Section
Records Unit

DIVISION OF WATER POLLUTION CONTROL

Thomas G. McSwiggin, P.E
Manager, Permit Section

IL 532-0009
WPC 146 Rev. 2/82

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

IL 532-0367
ADM 39
084-002

Subject CPC
Data NCCW Outfall
Reviewed by J. Kluge Date 5/10/84

Applicant: CPC International
6400 Archer Rd
Summit-Argo IL 60501

Prepared by: J.W. Chapman, Director of Regulatory Affairs
and
Daniel Engineering
Greenville SC

Proposal: As part of the expansion and rebuilding of its Argo facility, CPC is replacing its barometric condensers with non-contact heat exchangers. Cooling water will be withdrawn from the Sanitary and Ship canal using an existing intake structure and piping. A new discharge pipe and outfall structure will be constructed under this permit. Process wastewater will continue to be discharged to M.S.D. GC.

General: Maximum cooling water use 61.5 mgd (app. narrative)
Max temp. rise 20° F.
Max. heat load = $\frac{61.5 \times 10^6 \times 2.34 \times 20}{24}$ = 0.43 billion Btu/hr

7Q10 = 1455 cfs = 942 mgd
Max. temp. of canal water (USGS Lockport station) 77.9°F
∴ At max. heat load & temp. and min flow discharge will result in R/S temp. of 79° or 1° temp increase

302.405 Temp limits ≤ 93°F 95% of the time
≤ 100°F 100% of the time

CPC applied for NPDES permit concurrently with this app.; however, NPDES cannot be issued as quickly

2/2

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

IL 532-0387
ADM 39
054-002

Subject CPC

Date

Reviewed by _____ Date _____

as this permit so const. permit will be conditioned on issuance of NPDES.

Technical details of construction:

2700 ft. of 42" dia. steel pipe, partially buried and partially above ground to avoid conflicts w/ existing utilities. Four pumps provided with total capacity of 32,000 gpm max. (21,000 gpm normal operation). Note - Eli's mgt referral to above is ultimate future capacity.

Outfall structure designed to minimize effect on receiving stream has been approved by Corps of Eng. Also includes backwash line from influent pipe strainers.

Application Info: Original 4/17 app. not signed or sealed.
Signed app. rec'd 4/19
Sealed app. rec'd 5/11

Action: Issue const. only permit

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved. OMB No. 2000-0474. Expires 3-31-84

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also Section D of the instructions for definitions of **bold-faced terms.**

SPECIFIC QUESTIONS	MARK X: YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X	
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)	X		
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X	
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)	X		

III. NAME OF FACILITY

1 SKIP: C P C I N T E R N A T I O N A L

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 C H A P M A N J A M E S D I R, R E G U L A T O R Y A F F	3 1 2 4 5 8 2 0 0 0

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 P O B O X 3 4 5

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 S U M M I T - A R G O	I L	6 0 5 0 1

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 6 4 0 0 A R C H E R R D

B. COUNTY NAME

C O O K

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 S U M M I T - A R G O	I L	6 0 5 0 1	

CONTINUE IN REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
7 (specify) Wet Corn Milling	7 (specify)
C. THIRD	**D. FOURTH**
7 (specify)	7 (specify)

VIII. OPERATOR INFORMATION

A. NAME

8 C P C INTERNATIONAL

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO (66)

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box. if "Other", specify.)

F = FEDERAL M = PUBLIC (other than federal or state)
S = STATE O = OTHER (specify)
P = PRIVATE

P (specify)

D. PHONE (area code & no.)

A 312 458 2000

E. STREET OR P.O. BOX

P O B O X 3 4 5

F. CITY OR TOWN

B S U M M I T - A R G O

G. STATE I L

H. ZIP CODE 6 0 5 0 1

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO (52)

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) 9 N	D. PSD (Air Emissions from Proposed Sources) 9 P
B. UIC (Underground Injection of Fluids) 9 U	E. OTHER (specify) 9 (specify)
C. RCRA (Hazardous Wastes) 9 R	E. OTHER (specify) 9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Wet Corn Milling

Raw corn is steeped, ground, separated and further processed into products which include: corn starch, corn oil, corn syrups and animal feeds.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
James W. Chapman	James W. Chapman	13 Apr 84

COMMENTS FOR OFFICIAL USE ONLY

C

Please ... EPA I.D. NUMBER ... Approval Expires 3-31-84

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

II. OUTFALL LOCATION

For each outfall ... latitude to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER	B. LATITUDE DEG	MIN	SEC	C. LONGITUDE DEG	MIN	SEC	D. RECEIVING WATER (name)
1	41	46	29	87	49	50	Chicago Sanitary & Ship Canal

Space Ex 41

III. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Following ... facility. Include sources of intake water, operations contributing wastewater to the effluent, and ... flows between lakes ... treatment units, and outfalls. If a water balance cannot be determined (e.g., *for certain mining activities*) ... description of ... sources of water and any collection or treatment measures.

B. For ... A. Operations contributing wastewater to the effluent, ... process wastewater, sanitary wastewater ... average flow contributed by each operation, and (3) The treatment ... wastewater flows ...

1. OUTFALL NUMBER	2. OPERATION(S) CONTRIBUTING FLOW	3. AVERAGE FLOW	4. TREATMENT a. DESCRIPTION	4. TREATMENT b. LIST CODES FROM TABLE 2C-3
	Closed loop	60 MGD	None	XX
1	Non-contact cooling water			

OFFICIAL USE ONLY ...

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES *(complete the following table)* ☒ NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(S) CONTRIBUTING FLOW *(list)*	3. FREQUENCY		4. FLOW				5. DURATION *(in days)*
		a. DAYS PER WEEK *(specify average)*	b. MONTHS PER YEAR *(specify average)*	a. FLOW RATE *(in mgd)*		b. TOTAL VOLUME *(specify with units)*		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES *(complete Item III-B)* ☐ NO *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☒ NO *(go to Section IV)*

C. If you answered "Yes" to Item III-B, list the quantity which represents an actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. MAXIMUM QUANTITY			2. AFFECTED OUTFALLS *(list outfall numbers)*
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES *(complete the following table)* ☒ NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (copy from Item 1 of Form 1)

Form Approved
OMB No. 2000-0059
Approval expires 3-31-84

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you do or expect that you will over the next 5 years use or manufacture as an intermediate or final product or byproduct?

☐ YES (list all such pollutants below) ☒ NO (go to Item VI-B)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharges of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ YES (complete Item VI-C below) ☒ NO (go to Section VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years, to the best of your ability at this time. Continue on additional sheets if you need more space.

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* ☒ NO *(go to Section VIII)*

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☒ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)

IX. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code)
James W. Chapman Director - Regulatory Affairs	312-458-2000
C. SIGNATURE	**D. DATE SIGNED**

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

Form Approved
OMB No. 2000-0059
Approval expires 3-31-84

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT: a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank): a. CONCENTRATION	b. MASS	4. INTAKE (optional): a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)												
b. Chemical Oxygen Demand (COD)								mg/l		12 - 45		
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)								mg/l		16 - 41		
e. Ammonia (as N)												
f. Flow	VALUE 61.5 MGD		VALUE		VALUE 60 MGD					VALUE 60 MGD		
g. Temperature (winter)	VALUE 14.1 - 17.1° Min		VALUE		VALUE 14.1 - 17.1° Min			°C		VALUE 3 - 6°C Min		
h. Temperature (summer)	VALUE 26.1 - 36.60° Max		VALUE		VALUE 26.1 - 36.6° Max			°C		VALUE 15 - 25.5° C Max		
i. pH	MINIMUM 6.9	MAXIMUM 8.4	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X": a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT: a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. (2) MASS	d. NO. OF ANALYSES	4. UNITS: a. CONCENTRATION	b. MASS	5. INTAKE (optional): a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. (2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual	X											X		
c. Color	X											X		
d. Fecal Coliform	X											X		
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (as N)		X												

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO OF ANALYSES
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)	X											X		
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X											X		
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (copy from Item 1 of Fo | OUTFALL NUMBER

Form Approved
OMB No. 2040-0059
Approval expires 3-31-84

CONTINUED FROM PAGE 3 OF FORM 2 C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part, please review each carefully. Complete one table *(all seven pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total, 7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7550-50-8)			X												
7M. Lead, Total (7439-97-6)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1 Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1 Dichloroethylene (75-35-4)			X												
17V. 1,2 Dichloropropane (78-87-5)			X												
18V. 1,3 Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

CONTINUED FROM GE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTED	b. REQUIRED	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION — VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION — ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-06-2)			X												

CONTINUED FROM E FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (if available)		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83 32 9)			X												
2B. Acenaphtylene (208 96 8)			X												
3B. Anthracene (120 12 7)			X												
4B. Benzidine (92 87 5)			X												
5B. Benzo (a) Anthracene (56 55 3)			X												
6B. Benzo (a) Pyrene (50 32 8)			X												
7B. 3,4-Benzo fluoranthene (205 99 2)			X												
8B. Benzo (ghi) Perylene (191-24-2)			X												
9B. Benzo (k) Fluoranthene (207-08-9)			X												
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X												
11B. Bis (2-Chloroethyl) Ether (111 44 4)			X												
12B. Bis (2-Chloroisopropyl) Ether (39638-32-9)			X												
13B. Bis (2 Ethylhexyl) Phthalate (117-81-7)			X												
14B. 4 Bromo phenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro naphthalene (91 58 7)			X												
17B. 4 Chloro phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218 01 9)			X												
19B. Dibenzo (a,h) Anthracene (53 70 3)			X												
20B. 1,2 Dichloro benzene (95 50 1)			X												
21B. 1,3 Dichloro benzene (541-73-1)			X												

CONTINUE ON PAGE V-7

POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
C/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
2B. 1,4-Dichloro enzene (106-46-7)			X												
3B. 3,3'-Dichloro enzidine 91-94-1)			X												
4B. Diethyl hthalate 84-66-2)			X												
5B. Dimethyl hthalate 131-11-3)			X												
6B. Di-N-Butyl hthalate 84-74-2)			X												
7B. 2,4-Dinitro- oluene (121-14-2)			X												
8B. 2,6-Dinitro- oluene (606-20-2)			X												
9B. Di-N-Octyl hthalate 117-84-0)			X												
0B. 1,2-Diphenyl- ydrazine (as Azo- enzene) (122-66-7)			X												
1B. Fluoranthene 206-44-0)			X												
2B. Fluorene 86-73-7)			X												
3B. Hexa- hlorobenzene 118-71-1)			X												
4B. Hexa- hlorobutadiene 87-68-3)			X												
5B. Hexachloro- yclopentadiene 77-47-4)			X												
6B. Hexachloro- thane (67-72-1)			X												
7B. Indeno ,2,3-cd) Pyrene 93-39-5)			X												
8B. Isophorone 8-59-1)			X												
9B. Naphthalene 1-20-3)			X												
0B. Nitrobenzene 8-95-3)			X												
B. N-Nitro- dimethylamine 2-75-9)			X												
B. N-Nitrosodi- Propylamine 21-64-7)			X												

EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER

Form Approved
OMB No. 2000-0059
Approval expires 4-31-84

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												